



Tennessee Department of Environment and Conservation
Division of Water Pollution Control
Enforcement and Compliance Section
L&C Annex, 6th Floor, 401 Church Street
Nashville, TN 37243
(615) 532-0625

Small Municipal Separate Storm Sewer System (MS4) Annual Report

1. MS4 INFORMATION

City of Kingsport

Name of MS4

Daniel Wankel

Name of Contact Person

(423) 224-2727

Telephone (including area code)

1644 Fort Henry Drive

Mailing Address

Kingsport

TN

37664

City

State

ZIP code

What is the current population of your MS4? 50,100

What is the reporting period for this annual report? From 7/1/11 to 6/30/12

2. PROTECTION OF STATE OR FEDERALLY LISTED SPECIES

A. Do any of the MS4 discharges or discharge-related activities likely to jeopardize any state or federally listed species (**Part 3, Special Conditions, General Permit for Phase II MS4s**) ☐ Yes ☒ No

B. Please attach the determination of the effect of the MS4 discharges on state or federally listed species per sub-part 3.2.1

3. WATER QUALITY PRIORITIES

A. Does your MS4 discharge to waters listed as impaired on your state 303(d) list? ☒ Yes ☐ No

B. If yes, identify each impaired water, the impairment(s), whether a TMDL has been approved by EPA for each, and whether the TMDL identifies your MS4 as a source of the impairment.

Impaired Water	Impairment	Approved TMDL		MS4 Assigned to WLA	
Madd Branch	Physical Substrate Habitat Alterations, Channelization	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Tranbarger Branch	Other Anthropogenic Habitat Alterations	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reedy Creek	Loss of Biological Integrity due to Siltation. Other Anthropogenic Habitat Alterations	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	See Attachment for Remaining Impaired Waters				

Impaired Water	Impairment	Approved TMDL	MS4 Assigned to WLA
Little Horse Creek	Alteration in stream-side or littoral vegetative cover. Loss of biological integrity due to siltation	No	No
Horse Creek	Alteration in stream-side or littoral vegetative cover. Escherichia coli	No	Yes
Unnamed Tributary to South Fork Holston River	Habitat loss due to alterations in stream-side or littoral vegetative cover. Loss of biological integrity due to siltation. Escherichia coli.	Yes	No
Fall Creek	Alteration in stream-side or littoral vegetative cover. Loss of biological integrity due to siltation	No	Yes
Unnamed Tributary to Reedy Creek	Loss of biological integrity due to siltation	No	Yes
Clark Branch	Loss of biological integrity due to siltation	No	Yes
Gravelly Creek	Habitat loss due to alterations in stream-side or littoral vegetative cover	No	Yes
Miller Branch	Loss of biological integrity due to siltation. Escherichia coli	No	Yes
Gammon Creek	Habitat loss due to alterations in stream-side or littoral vegetative cover	Yes	Yes
Timbertree Branch	Loss of biological integrity due to siltation. Habitat loss due to alterations in stream-side or littoral vegetative cover.	No	Yes
Booher Creek	Escherichia coli	No	No
Unnamed Tributary to South Fork Holston River	Habitat loss due to alterations in stream-side or littoral vegetative cover. Loss of biological integrity due to siltation. Escherichia coli.	Yes	No
South Fork Holston River	Low dissolved oxygen. Habitat loss due to stream flow alterations. Thermal modifications.	No	No
Wagner Creek	Habitat loss due to alteration in stream-side or littoral vegetative cover. Loss of biological integrity due to siltation. Escherichia coli.	Yes	Yes

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- C. What specific sources of these pollutants of concern are you targeting? Construction site and MS4 runoff sediment
- D. Do you have discharges to any Exceptional TN Waters (ETWs) or Outstanding National Resource Waters (ONRWs)? ☐ Yes ☒ No
- E. Are you implementing additional specific provisions to ensure the continued integrity of ETWs or ONRWs located within your jurisdiction? ☐ Yes ☐ No

4. PUBLIC EDUCATION AND PUBLIC PARTICIPATION

- A. Is your public education program targeting specific pollutants and sources of those pollutants? ☒ Yes ☐ No
- B. If yes, what are the specific causes, sources and/or pollutants addressed by your public education program? MS4 and construction site runoff; illicit discharges targeting septage, sediment, oil and grease; professional chemical applicators of pesticides, herbicides and fertilizer; automotive-related fluids.
- C. Note specific successful outcome(s) (NOT tasks, events, publications) fully or partially attributable to your public education program during this reporting period. Downward trend in amount of debris collected during stream cleanups. Increase in number of complaints from website, hotline and public signage.
- D. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your stormwater program? ☒ Yes ☐ No
- E. Provide a summary of all public meetings required by the permit. Board of Mayor and Aldermen (BMA) met on September 23, 2011 to consider annual report. Stormwater Advisory Committee met on 8/9/11 to provide community input into the establishment of a utility and user rate. BMA met on 10/18/11 and 11/1/11 to approve ordinance establishing a stormwater utility and on 12/6/11 to approve the corresponding user fee rate resolution

5. CODES AND ORDINANCES REVIEW AND UPDATE

- A. Is a completed copy of the EPA Water Quality Scorecard submitted with this report? ☒ Yes ☒ No
- B. Include status of implementation of code, ordinance and/or policy revisions associated with permanent stormwater management. Scorecard completed by 5/19/12 establishing initial baseline. Review and considerations will be incorporated into revised ordinance no later than 5/19/15.

6. CONSTRUCTION

- A. Do you have an ordinance or adopted policies stipulating:
- | | | |
|--|---|-----------------------------|
| Erosion and sediment control requirements? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Other construction waste control requirements? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Requirement to submit construction plans for review? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| MS4 enforcement authority? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
- B. How many active construction sites disturbing at least one acre were there in your jurisdiction this reporting period? 49
- C. How many of these active sites did you inspect this reporting period? 47
- D. On average, how many times each, or with what frequency, were these sites inspected Monthly (e.g., weekly, monthly, etc.)?
- E. Do you prioritize certain construction sites for more frequent inspections? ☒ Yes ☐ No
If Yes, based on what criteria? Discharges to impaired streams, environmentally sensitive areas and hot spots.

7. ILLICIT DISCHARGE ELIMINATION

- A. Have you completed a map of all outfalls and receiving waters of your storm sewer system? ☒ Yes ☐ No
- B. Have you completed a map of all storm drain pipes of storm sewer system? ☒ Yes ☐ No
- C. How many outfalls have you identified in your system? 905
- D. How many of these outfalls have been screened for dry weather discharges? 900
- E. How many of these have been screened more than once? 5
- F. What is your frequency for screening outfalls for illicit discharges? As needed
- G. Do you have an ordinance that effectively prohibits illicit discharges? ☒ Yes ☐ No
- H. During this reporting period, how many illicit discharges/illegal connections have you discovered (or been reported to you)? 9

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- I. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated? 4

8. STORMWATER MANAGEMENT FOR MUNICIPAL OPERATIONS

- A. Have stormwater pollution prevention plans (or an equivalent plan) been developed for:

All parks, ball fields and other recreational facilities	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
All municipal turf grass/landscape management activities	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
All municipal vehicle fueling, operation and maintenance activities	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
All municipal maintenance yards	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
All municipal waste handling and disposal areas	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

- B. Are stormwater inspections conducted at these facilities? ☒ Yes ☐ No

1. If Yes, at what frequency are inspections conducted? Quarterly

- C. Have standard operating procedures or BMPs been developed for all MS4 field activities? (e.g., road repairs, catch basin cleaning, landscape management, etc.) ☒ Yes ☐ No

- D. Do you have a prioritization system for storm sewer system and permanent BMP inspections? ☒ Yes ☐ No

- E. On average, how frequently are catch basins and other inline treatment systems inspected? Twice per year

- F. On average, how frequently are catch basins and other inline treatment systems cleaned out/maintained? 2/year

- G. Do municipal employees in all relevant positions and departments receive comprehensive training on stormwater management? ☒ Yes ☐ No

- H. If yes, do you also provide regular updates and refreshers? ☒ Yes ☐ No

If so, how frequently and/or under what circumstances? No less than annually

9. PERMANENT STORMWATER CONTROLS

- A. Do you have an ordinance or other mechanism to require:

Site plan reviews of all new and re-development projects?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Maintenance of stormwater management controls?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Retrofitting of existing BMPs with green infrastructure BMPs?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

- B. What is the threshold for new/redevelopment stormwater plan review? (e.g., all projects, projects disturbing greater than one acre, etc.) All projects

- C. Have you implemented and enforced performance standards for permanent stormwater controls? ☒ Yes ☐ No

- D. Do these performance standards go beyond the requirements found in paragraph 4.2.5.2 and require that pre-development hydrology be met for:

Flow volumes	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Peak discharge rates	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Discharge frequency	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Flow duration	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

- E. Please provide the URL/reference where all permanent stormwater management standards can be found.

<http://publicworks.kingsporttn.gov/files/publicworks/Stormwater-Management-Manual.pdf>

- F. How many development and redevelopment project plans were reviewed for this reporting period? 14

- G. How many development and redevelopment project plans were approved? 12

- H. How many permanent stormwater management practices/facilities were inspected? 97

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- I. How many were found to have inadequate maintenance? 5
- J. Of those, how many were notified and remedied within 30 days? (If window is different than 30 days, please specify) One. The remainder are on compliance schedules or will be maintained by the MS4.
- K. How many enforcement actions were taken that address inadequate maintenance? 2
- L. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance? ☒ Yes ☐ No
- M. Do all municipal departments and/or staff (as relevant) have access to this tracking system? ☒ Yes ☐ No
- N. Has the MS4 developed a program to allow for incentive standards for redeveloped sites? ☒ Yes ☐ No
- O. How many maintenance agreements has the MS4 approved during the reporting period? 7

10. ENFORCEMENT

- A. Identify which of the following types of enforcement actions you used during the reporting period, indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater control) or note those for which you do not have authority:

Action	Construction	Permanent Stormwater Controls	Illicit Discharge	Authority?	
Notice of violation	# <u>46</u>	# <u>5</u>	# <u> </u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Administrative fines	# <u>10</u>	# <u>2</u>	# <u> </u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Stop Work Orders	# <u> </u>	# <u> </u>	# <u> </u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Civil penalties	# <u>5</u>	# <u> </u>	# <u> </u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Criminal actions	# <u> </u>	# <u> </u>	# <u> </u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Administrative orders	# <u>10</u>	# <u>2</u>	# <u> </u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Other <u> </u>	# <u> </u>	# <u> </u>	# <u> </u>		

- B. Do you use an electronic tool (e.g., GIS, data base, spreadsheet) to track the locations, inspection results, and enforcement actions in your jurisdiction? ☒ Yes ☐ No
- C. What are the 3 most common types of violations documented during this reporting period? Owner inspection frequency, recordkeeping and implementation of SWPPP

11. PROGRAM RESOURCES

- A. What was your annual expenditure to implement the requirements of your MS4 NPDES permit and SWMP this past reporting period? \$720,000
- B. What is next year's budget for implementing the requirements of your MS4 NPDES permit and SWMP? \$1,550,900
- C. Do you have an independent financing mechanism for your stormwater program? ☒ Yes ☐ No
- D. If so, what is it/are they (e.g., stormwater fees), and what is the annual revenue derived from this mechanism?
Source: Utility fee Amount \$1,550,900
Source: Amount \$
- E. How many full time employees does your municipality devote to the stormwater program (specifically for implementing the stormwater program vs. municipal employees with other primary responsibilities that dovetail with stormwater issues)? 8
- F. Do you share program implementation responsibilities with any other entities? ☐ Yes ☒ No

Entity	Activity/Task/Responsibility	Your Oversight/Accountability Mechanism
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12. EVALUATING/MEASURING PROGRESS

- A. What indicators do you use to evaluate the overall effectiveness of your Stormwater Management Program, how long have you been tracking them, and at what frequency? Not that these are not measurable goals for individual BMPs or tasks, but large-scale or long-term metrics for the overall program, such as in-stream macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc?

Indicator	Began Tracking (year)	Frequency	Number of Locations
Example: E. coli	2003	Weekly April–September	20
E. coli	2011	Permit requirement	5
Macroinvertebrates/VSA	2011	Permit requirement	11

- B. Provide a summary of data (e.g., water quality information, performance data, modeling) collected in order to evaluate the performance of permanent stormwater controls installed throughout the system. This evaluation may include a comparison of current and past permanent stormwater control practices. Available upon request.

13. STORMWATER MANAGEMENT PROGRAM UPDATE

- A. Describe any changes to the MS4 program during the reporting period including but not limited to:

Changes adding (but not subtracting or replacing) components, controls or other requirements per paragraph 4.4.2.a of the permit. _____

Changes to replace an ineffective or unfeasible BMP per paragraph 4.4.2.b of the permit. _____

Information (e.g. additional acreage, outfalls, BMPs) on program area expansion based on annexation or newly urbanized areas. Annexation has occurred, but the number of outfalls and BMPs has already been accounted for.

Changes to the program as required by the division. Develop and implement a Public Information and Education Plan, review codes and ordinances using the EPA Water Quality Scorecard

14. CERTIFICATION

This report must be signed by a ranking elected official or by a duly authorized representative of that person. See signatory requirements in sub-part 6.7.2 of the permit.

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Printed Name and Title

Signature

Date

Annual reports must be submitted in accordance with the requirements of subpart 5.4. (Reporting) of the permit. Annual reports must be submitted to the appropriate Environmental Field Office (EFO) by September 30 of each calendar year, as shown in the table below:

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	540 McCallie Avenue STE 550	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 432-4015
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000